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Effectiveness of piper betel leaf extract against the growth of Staphylococcus aureus (in vitro)

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Infection of the oral cavity is an infection caused by the activity of pathological microorganisms such as Staphylococcus aureus bacteria. The use of herbal ingredients such as betel leaf extract, in the assumption, can be useful for inhibiting the growth of Staphylococcus aureus in the infection. This study aims to determine the effectiveness of antibacterial piper betel leaf extract 25% against the growth of Staphylococcus aureus. This research used posttest only control group design, composed of 27 samples of Staphylococcus aureus type A bacteria which were divided into 3 treatment groups, consists of : group I treated with 25% betel leaf extract, group II treated with lemongrass extract 25% and control group treated with Amoxicillin 500 mg. Result obtained by means parametric statistic test, that is one way-ANOVA, obtained p value 0.001 (p<0.05), so there is a significant difference in the inhibition zone of the three groups. Result of Post Hoc Test, that is Least Significant Difference (LSD) obtained p value 0.001 (p<0.05), there is significant difference in the measurement of inhibition zone between groups. Piper betel leaf extract is 25% more effective than lemongrass extract 25% and amoxicillin 500 mg against the growth of Staphylococcus aureus.

Biography

Tri Purnami Dewi R has completed her DDS degree in the year 1997 from Faculty of Dentistry, Hasanuddin University and Post-graduation in Health Sciences from Gadjah Mada University in 2004. She is currently pursuing a Doctoral Program of Medical Science at Faculty of Medicine Udayana University.

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